

Missouri Department of Natural Resources



PUBLIC NOTICE

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: November 19, 2004

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, St. Louis Regional Office, 7545 South Lindbergh, Suite 210, St. Louis, Missouri 63125, ATTN: Thomas M. Siegel, Chief, Permits and Engineering. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by December 19, 2004 or received in our office by 5:00 p.m. on December 22, 2004. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits, comments, and other information including copies of applicable regulations are available for inspection and copying at DNR's website, www.dnr.state.mo.us/deg/wpcp/homewpcp.htm, or at the Department of Natural Resources, Division of Environmental Quality, Water Pollution Control Program, 205 Jefferson Street, P.O. Box 176, Jefferson City, Missouri 65102, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday. An informational packet containing effluent limitations, permit conditions and other pertinent information is available on a biweekly basis for a subscription fee of \$185.00 per year. Please contact the Water Pollution Control Program at (573) 751-6825 or the above address for an order form.

Public Notice Date: November 19, 2004
Permit Number: MO-0111210
St. Louis Regional Office

FACILITY NAME AND ADDRESS	NAME AND ADDRESS OF OWNER
Lambert, St. Louis International Airport St. Louis, MO 63145	City of St. Louis 1200 Market Street St. Louis, MO 63103
RECEIVING STREAM & LEGAL DESCRIPTION	TYPE OF DISCHARGE
See below	Industrial, modification

Outfalls #001, #002, #003 & #004 - Coldwater Creek, Sec. 8 projected, T46N, R6E, St. Louis County

Outfalls #005 & #006 - Coldwater Creek, Sec. 5 projected, T46N, R6E, St. Louis County

Outfall #007 - Cowmire Creek (Missouri River) Sec. 36 projected, T47N, R5E, St. Louis County

Outfall #008 - Coldwater Creek, Sec. 6 projected, T46N, R6E, St. Louis County

Outfall #009 - Coldwater Creek, Sec. 7 projected, T46N, R6E, St. Louis County

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 85-623, 1968, as amended),

Permit No. MO 11210

Owner: City of St. Louis
Address: 1200 Market Street, St. Louis, MO 63103

Continuing Authority: Airport Authority
Address: 10701 Natural Bridge Road, St. Louis, MO 63145

Facility Name: Lambert, St. Louis International Airport
Facility Address: St. Louis, MO 63145

Legal Description: See Page 2
Latitude/Longitude: See Page 2

Receiving Stream: See Page 2
First Classified Stream and ID: See Page 2
USGS Basin & Sub-watershed No.: See Page 2

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See Page 3

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date

Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Expiration Date
MO 780-0041 (10-93)

Mohamad Alhalabi, P.E., Director, St. Louis Regional Office

Outfall #001

Legal Description SE ¼, NW ¼, NW ¼, Sec. 8 projected, T46N, R6E, St. Louis County
Latitude/Longitude: +03844476/-09022157
Receiving Stream: Coldwater Creek (U)
First Classified Stream and ID: Coldwater Creek (C) (01706)
USGS Basin & Sub-watershed No.: (10300200-180002)

Outfall #002

Legal Description SW ¼, NE ¼, NW ¼, Sec. 8 projected, T46N, R6E, St. Louis County
Latitude/Longitude: +03844442/-09022145
Receiving Stream: Coldwater Creek (U)
First Classified Stream and ID: Coldwater Creek (C) (01706)
USGS Basin & Sub-watershed No.: (10300200-180002)

Outfall #003

Legal Description SE ¼, NE ¼, NW ¼, Sec. 8 projected, T46N, R6E, St. Louis County
Latitude/Longitude: +03844478/-09022145
Receiving Stream: Coldwater Creek (U)
First Classified Stream and ID: Coldwater Creek (C) (01706)
USGS Basin & Sub-watershed No.: (10300200-180002)

Outfall #004

Legal Description E ½, SW ¼, NE ¼, Sec. 8 projected, T46N, R6E, St. Louis County
Latitude/Longitude: +03844391/-09021475
Receiving Stream: Coldwater Creek (U)
First Classified Stream and ID: Coldwater Creek (C) (01706)
USGS Basin & Sub-watershed No.: (10300200-180002)

Outfall #005

Legal Description W ½, SE ¼, SE ¼, Sec. 5 projected, T46N, R6E, St. Louis County
Latitude/Longitude: +03845097/-09021346
Receiving Stream: Coldwater Creek (U)
First Classified Stream and ID: Coldwater Creek (C) (01706)
USGS Basin & Sub-watershed No.: (10300200-180002)

Outfall #006

Legal Description W ½, SE ¼, NE ¼, Sec. 5 projected, T46N, R6E, St. Louis County
Latitude/Longitude: +03845335/-09021385
Receiving Stream: Coldwater Creek (U)
First Classified Stream and ID: Coldwater Creek (C) (01706)
USGS Basin & Sub-watershed No.: (10300200-180002)

Outfall #007

Legal Description SE ¼, NE ¼, SW ¼, Sec. 36 projected, T47N, R5E, St. Louis County
Latitude/Longitude: +03846066/-09024144
Receiving Stream: Cowmire Creek (U)
First Classified Stream and ID: Missouri River (C) (01604)
USGS Basin & Sub-watershed No.: (10300200-180001)

Outfall #008

Legal Description E ½, SW ¼, SE ¼, Sec. 6 projected, T46N, R6E, St. Louis County
Latitude/Longitude: +03845052/-09022479
Receiving Stream: Coldwater Creek (U)
First Classified Stream and ID: Coldwater Creek (C) (01706)
USGS Basin & Sub-watershed No.: (10300200-180002)

Outfall #009

Legal Description NW ¼, SW ¼, NE ¼, Sec. 7 projected, T46N, R6E, St. Louis County
Latitude/Longitude: +03844528/-09022585
Receiving Stream: Coldwater Creek (U)
First Classified Stream and ID: Coldwater Creek (C) (01706)
USGS Basin & Sub-watershed No.: (10300200-180002)

FACILITY DESCRIPTION (continued)

Outfall #001 - Airport - SIC #4581
Stormwater runoff.
Flow is dependent upon precipitation.

Outfall #002 - Airport - SIC #4581
Stormwater runoff/non-contact cooling water/ deicing.
Flow is dependent upon precipitation.

Outfalls #003 & #004 - Airport - SIC #4581
Stormwater runoff/deicing.
Flow is dependent upon precipitation.

Outfall #005 - Airport - SIC #4581
Stormwater runoff/non-contact cooling water/deicing.
Flow is dependent upon precipitation.

Outfall #006 - Airport - SIC #4581
Stormwater runoff/deicing.
Flow is dependent upon precipitation.

Outfalls #007, #008 & #009 - Airport - SIC #4581
Outfalls from Airport Expansion Program
Stormwater runoff.
Flow is dependent upon precipitation.

					PAGE NUMBER 4 of 7	
A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PERMIT NUMBER MO-0111210	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfalls #001, #002, #003, #004, #005, #006, #008 & #009 (Notes 1 & 2)						
Flow	MGD	*		*	once/week	24 hr. estimate
Precipitation**	inches	*			once/month	24 hr. total
Biochemical Oxygen Demand ₅	mg/L	45		30	once/month	grab
Total Suspended Solids	mg/L			50	once/month	grab
Chemical Oxygen Demand	mg/L			180	once/month	grab
Total Organic Carbon		*		*	once/month	grab
Total Petroleum Hydrocarbons***		(Note 2)		(Note 2)	(Note 1)	grab
pH - Units	SU	****		****	once/month	grab
Oil & Grease	mg/L	15		10	once/month	grab
Ammonia as N	mg/L	15		*	once/month	grab
Ethylene Glycol*****	*			*	once/month	grab
Propylene Glycol*****	*			*	once/month	grab
Total Glycols*****	*			*	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE _____.						
<u>Instream Monitoring</u> - upstream of facility (Note 4)						
Biochemical Oxygen Demand ₅	mg/L	*		*	once/month	grab
Total Suspended Solids	mg/L	*		*	once/month	grab
Chemical Oxygen Demand	mg/L	*		*	once/month	grab
Total Petroleum Hydrocarbons***	mg/L	(Note 2)		(Note 2)	once/month	grab
pH - Units	SU	*		*	once/month	grab
Oil & Grease	mg/L	*		*	once/month	grab
Ammonia as N	mg/L	*		*	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 5 of 7	
					PERMIT NUMBER MO-0111210	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #007 Flow	MGD	*		*	once/week	24 hr. estimate
Precipitation**	inches	*			once/month	24 hr. total
Biochemical Oxygen Demand ₅	mg/L	45		30	once/month	grab
Chemical Oxygen Demand	mg/L	360			once/month	grab
Total Organic Carbon	mg/L	100		5	once/month	grab
Benzene	mg/L	0.5		0.5	once/month	grab
Toluene	mg/L			*	once/month	grab
Ethylbenzene	mg/L			*	once/month	grab
Xylene	mg/L	*		*	once/month	grab
Total BETX*****	mg/L	0.75		0.75	once/month	grab
Methyl Tertiary Butyl Ether (MTBE) (Note 3)	mg/L	0.020		0.020	once/month	grab
Ammonia as N	mg/L	5		5	once/month	grab
Oil & Grease	mg/L	15		10	once/month	grab
Total Petroleum Hydrocarbons	mg/L	10		10	once/month	grab
Total Suspended Solids	mg/L	50		30	once/month	grab
pH - Units	SU	****		****	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Total precipitation during the 24 hour period prior to sampling.
- *** EPA Method 418.1 (total petroleum hydrocarbons).
- **** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- ***** Monitoring for deicing compounds once/month during deicing season (October 1-March 31)
- ***** Total BETX shall be measured as the sum of Benzene, Ethylbenzene, Toluene & Xylene.

Note 1 - during deicing events, certain outfalls impacted are shut off and the runoff from these areas are detained and released to the MSD-Bissell Point WWTP for treatment.

Note 2 - Total Petroleum Hydrocarbons will be monitored weekly at each outfall potentially impacted by a spill for any discharge until the spill has been properly cleaned up.

Note 3 - If analysis is done using EPA methods, then use EPA method 8260A, not 8020/A/21B, due to detection limit concerns.

Note 4 - Exact locations must be approved by the department's St. Louis Regional Office.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are presently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under paragraph shall also contain any other requirements of the Clean Water Act that are applicable.

2. All outfalls must be clearly marked in the field.
3. Within six months of the discovery of any source of wastewater other than non-contact cooling water or stormwater, permittee will cease discharge of those sources by connection to areawide wastewater treatment system.
4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

5. Report as no-discharge when a discharge does not occur during the report period.

C. SPECIAL CONDITIONS (continued)

6. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to be unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or life watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, appliances, demolition debris, used vehicles or equipment and waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to sections 260.200-260.247.
7. Industrial Sludge Disposal
- (a) Disposal of industrial sludge is not authorized by this permit. Industrial sludge shall be disposed at a permitted solid waste disposal facility in accordance with 10 CSR 80; or if the sludge is determined to be hazardous waste, shall be disposed at a permitted hazardous waste disposal facility pursuant to 10 CSR 25.
 - (b) Non-hazardous sludge that is disposed on site or that is exempted under 10 CSR 80 must obtain applicable permits under 10 CSR 20-6.015 and 10 CSR 20-6.200.
 - (c) Each effluent monitoring report shall also specify the date any sludge is removed from the facility, who removed the sludge and the number of gallons or quantity of sludge removed. The final disposal location shall be reported, including the name of the disposal facility, the solid waste or hazardous waste disposal permit number, and date of permit issuance.
 - (d) This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Act.

Date of Fact Sheet: May 22, 2001 (amended 10/25/04 TAH)

Date of Public Notice: November 19, 2004

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0111210

FACILITY NAME: Lambert, St. Louis International Airport

OWNER NAME: City of St. Louis

LOCATION: St. Louis County

RECEIVING STREAM: Coldwater Creek & Cowmire Creek

FACILITY CONTACT PERSON: Mal Donohue

TELEPHONE: (314) 426-8146

FACILITY DESCRIPTION AND RATIONALE

The City of St. Louis, MO, has applied to renew the State Operating Permit MO-0111210 for stormwater, non-contact cooling water and boiler blowdown discharges from Lambert, St. Louis International Airport. (This includes the Expansion area). The flow is dependant upon precipitation.

The discharge is from 9 outfalls located in sections 5, 7 & 8 (all projected), T46N, R6E & Section 36 (projected), T47N, R5E in St. Louis County. Eight of nine discharges are to Coldwater Creek. Coldwater Creek is designated as a Metropolitan No-Discharge Stream. This portion of Coldwater Creek is not otherwise classified in Missouri Water Quality Standards (10 CSR 20-7.031). Within approximately 6 miles Coldwater Creek is classified C (streams that may cease flow in dry periods but maintain permanent pools which support aquatic life). Outfall #007 discharges to Cowmire Creek, which is unclassified. Approximately 9 miles downstream Cowmire Creek flows into the Missouri River, which is classified P (streams that maintain permanent flow even in drought periods).

Effluent limitations are being proposed under state and federal law. Final effluent limitations for Biochemical Oxygen Demand, Total Suspended Solids and pH are taken from 10 CSR 20-7.015(8) effluent limits. Final effluent limitations for Total Organic Carbon, Chemical Oxygen Demand, Total Petroleum Hydrocarbons and Oil & Grease have been set using best professional judgement and 40 CFR Part 419 Petroleum Refining (Integrated).

Several typos were noted in the previous public notice for this facility. A WQRS has been prepared by the Planning Section 1/17/03 (see below). Deicing Season monitoring has been added due to this report.

This permit will be issued for a period of five years.



Missouri Department of Natural Resources
Water Pollution Control Program
Planning Section

Water Quality Review Sheet
Determination of Effluent Limits

FACILITY INFORMATION

FACILITY NAME: Lambert - St. Louis International Airport NPDES #: MO-0111210

FACILITY TYPE/DESCRIPTION: Stormwater runoff/non-contact cooling water/boiler
blowdown/deicing.

ECOREGION: Ozark Highlands 8- DIGIT 10300200 COUNTY: St. Louis
HUC: Central Irregular Plains
Mississippi Alluvial Plains Osage Plains
Ozark Highlands

LEGAL DESCRIPTION: Sec.8 projected, T46N, R6E LATITUDE/LONGITUDE: +3844476/-09022157

WATER QUALITY HISTORY: No stream surveys for this facility. DMRs indicate
BOD5 and COD exceedences during deicing activities.

Outfall Characteristics

OUTFALL	DESIGN FLOW (CFS)	TREATMENT TYPE	RECEIVING WATERBODY	OTHER
001	Variable	Stormwater	Coldwater Creek	
002	Variable	Stormwater/non-contact cooling water/boiler blowdown/deicing	Coldwater Creek	
003	Variable	Stormwater/deicing	Coldwater Creek	
004	Variable	Stormwater/deicing	Coldwater Creek	
005	Variable	Stormwater/non-contact cooling water/boiler blowdown	Coldwater Creek	
006	Variable	Stormwater/deicing	Coldwater Creek	
007	Variable	Stormwater	Cowmire Creek	
008	Variable	Stormwater	Coldwater Creek	
009	Variable	Stormwater	Coldwater Creek	

Receiving Waterbody Information

WATERBODY	CLASS	7Q10 (CFS)	*DESIGNATED USES	OTHER CHARACTERISTICS
Coldwater Creek	U	0.0	None	Metro No-Discharge (MND)
Coldwater Creek	C	0.1	LWW, AQL, IND	WBID: 01706, MND
Cowmire Creek	U	0.0	None	
Missouri River	P	10,888	IRR, LWW, AQL, BTG, DWS, IND	WBID: 1604

*Cool Water Fishery (CLF), Cold Water Fishery (CDF), Irrigation (IRR), Industrial (IND), Boating & Canoeing (BTG), Drinking Water Supply (DWS), Whole Body Contact Recreation (WBC),

COMMENTS Deicing activities occur at most airports between October 1 and March 31.
EPA-821-R-00-016 "Preliminary Data Summary Airport Deicing Operations
(Revised)" was used to determine deicing compound monitoring requirements.

MIXING CONSIDERATIONS

Mixing Zone.

No mixing zone allowed due to unclassified receiving stream.

Zone of Initial Dilution (Z.I.D.).

No Z.I.D. allowed due to unclassified receiving stream.

Permit Limits And Information

TMDL WATERSHED: ☐ N W.L.A. STUDY CONDUCTED: ☐ N DISINFECTION REQUIRED: ☐ N DISINFECTION WAIVER: ☐ N
 (Y OR N) (Y OR N) (Y OR N) (Y, N, NA)

OUTFALL# 001, 002, 003, 004, 005, 006, 008, & 009:

WET TEST (Y OR N): ☐ N FREQUENCY: N/A A.E.C. N/A LIMIT: N/A

PARAMETER	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MONITORING FREQUENCY	SAMPLE TYPE
FLOW	MGD	*		*	ONCE/WEEK	24 HOUR ESTIMATE
PRECIPITATION	INCHES	*		*	ONCE/MONTH	24 HOUR TOTAL
BIOCHEMICAL OXYGEN DEMAND (BOD ₅)	MG/L	45		30	ONCE/MONTH	GRAB
TOTAL SUSPENDED SOLIDS	MG/L	100		50	ONCE/MONTH	GRAB
CHEMICAL OXYGEN DEMAND	MG/L	360		180	ONCE/MONTH	GRAB
TOTAL ORGANIC CARBON	MG/L	*		*	ONCE/MONTH	GRAB
TOTAL PETROLEUM HYDROCARBONS	MG/L	(NOTE 2)		(NOTE 2)	(NOTE 1)	GRAB
PH	SU	6 - 9		6 - 9	ONCE/MONTH	GRAB
OIL AND GREASE	MG/L	15		10	ONCE/MONTH	GRAB
AMMONIA AS N	MG/L	15		*	ONCE/MONTH	GRAB
ETHYLENE GLYCOL**	MG/L	*		*	ONCE/MONTH	GRAB
PROPYLENE GLYCOL**	MG/L	*		*	ONCE/MONTH	GRAB
TOTAL GLYCOLS**	MG/L	*		*	ONCE/MONTH	GRAB

* MONITORING REQUIREMENT ONLY

** MONITORING FOR DEICING COMPOUNDS ONCE/MONTH DURING DEICING SEASON (OCTOBER 1 – MARCH 31)

Note 1: During deicing events, certain outfalls impacted are shut off and the runoff from these areas are detained and released to the MSD-Bissell Point WWTP for treatment.

Note 2: Total Petroleum Hydrocarbons will be monitored weekly at each outfall potentially impacted by a spill for any discharge until the spill has been properly cleaned up.

OUTFALL# 007:

WET TEST (Y OR N) : ☐ N FREQUENCY: N/A A.E.C. N/A LIMIT: N/A

PARAMETER	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MONITORING FREQUENCY	SAMPLE TYPE
FLOW	MGD	*		*	ONCE/WEEK	24 HOUR ESTIMATE
PRECIPITATION	INCHES	*		*	ONCE/MONTH	24 HOUR TOTAL
BIOCHEMICAL OXYGEN DEMAND (BOD ₅)	MG/L	45		30	ONCE/MONTH	GRAB
CHEMICAL OXYGEN DEMAND	MG/L	360		180	ONCE/MONTH	GRAB
TOTAL ORGANIC CARBON	MG/L	*		*	ONCE/MONTH	GRAB
BENZENE	MG/L	0.5		0.05	ONCE/MONTH	GRAB
TOLUENE	MG/L	*		*	ONCE/MONTH	GRAB
ETHYLBENZENE	MG/L	*		*	ONCE/MONTH	GRAB
XYLENES (TOTAL)	MG/L	*		*	ONCE/MONTH	GRAB
TOTAL BTEX	MG/L	0.75		0.75	ONCE/MONTH	GRAB
METHYL TERTIARY BUTYL ETHER (MTBE)	MG/L	0.02		0.02	ONCE/MONTH	GRAB
AMMONIA AS N	MG/L	5		5	ONCE/MONTH	GRAB
OIL AND GREASE	MG/L	15		10	ONCE/MONTH	GRAB
TOTAL PETROLEUM HYDROCARBONS	MG/L	10		10	ONCE/MONTH	GRAB
TOTAL SUSPENDED SOLIDS	MG/L	50		30	ONCE/MONTH	GRAB
PH	SU	6 - 9		6 - 9	ONCE/MONTH	GRAB

Receiving Water Monitoring Requirements

In-stream monitoring same as current permit. No additional in-stream monitoring is requested at this time.

Derivation and Discussion of Limits

Outfall 001, 002, 003, 004, 005, 006, 008, & 009:

- **Biochemical Oxygen Demand (BOD₅)**. Same as current permit; 45 mg/L daily maximum, 30 mg/L monthly average.
- **Total Suspended Solids**. Current permit contains typographical errors for this parameter; 100 mg/L daily maximum, 50 mg/L monthly average.
- **Chemical Oxygen Demand (COD)**. Same as current permit; 360 mg/L daily maximum, 180 mg/L monthly average.
- **Total Organic Carbon (TOC)**. Current permit contains typographical errors for this parameter; Monitoring Requirement only.
- **Total Petroleum Hydrocarbons**. Same conditions as current permit.
- **pH**. Same as current permit; 6 – 9 SU daily maximum and monthly average limits.
- **Oil and Grease**. Same as current permit; 15 mg/L daily maximum, 10 mg/L monthly average.
- **Ammonia as N**. Same as current permit; 15 mg/L daily maximum, monthly average monitoring requirement.
- **Ethylene Glycol, Propylene Glycol, and Total Glycols**. Monitoring requirement only during deicing season (October 1 – March 31).

Outfall 007:

- **Biochemical Oxygen Demand (BOD₅)**. Same as current permit; 45 mg/L daily maximum, 30 mg/L monthly average.
- **Chemical Oxygen Demand (COD)**. Same as current permit; 360 mg/L daily maximum, 180 mg/L monthly average.
- **Total Organic Carbon (TOC)**. Current permit contains typographical errors for this parameter; Monitoring Requirement only.
- **Benzene**. Same as current permit; 0.5 mg/L daily maximum, 0.05 mg/L monthly average.
- **Toluene**. Same as current permit; Monitoring Requirement only.
- **Ethylbenzene**. Same as current permit; Monitoring Requirement only.
- **Xylenes (Total)**. Same as current permit; Monitoring Requirement only.
- **Total BTEX**. Same as current permit; 0.75 mg/L daily maximum, 0.75 mg/L monthly average; Total BTEX is the sum of benzene, ethylbenzene, toluene, and xylene concentrations.
- **Methyl Tertiary Butyl Ether (MTBE)**. Same as current permit; 0.02 mg/L daily maximum, 0.02 monthly average.

- Ammonia as N. Same as current permit; 5 mg/L daily maximum, 5 mg/L monthly average.
- Oil and Grease. Same as current permit; 15 mg/L daily maximum, 10 mg/L monthly average.
- Total Petroleum Hydrocarbons. Same as current permit; 10 mg/L daily maximum, 10 mg/L monthly average.
- Total Suspended Solids. Same as current permit; 50 mg/L daily maximum, 30 mg/L monthly average.
- pH. Same as current permit; 6 – 9 SU daily maximum and monthly average limits.

Reviewer: JH
Date: 1/17/03
Unit Chief: MD